Col	e et al.		[45] Date of Patent: Aug. 14, 1990	
[54]	ALGINAT	E HYDROGEL FOAM WOUND	424956 8/1982 Sweden	
[75]	Inventors:	Susan M. Cole; James E. Garbe, both of St. Paul, Minn.	OTHER PUBLICATIONS  Davis et al., "In Vitro Evaluation of Alginate Gel Sys-	
[73]	Assignee:	Manufacturing Company, St. Paul, Minn.	tems as Sustained Release Drug Delivery Systems", J. of Controlled Release, vol. 3, (1986), pp. 167-175.	
			Primary Examiner—Randall L. Green	
[21]	Appl. No.:	301,312	Assistant Examiner—Paul Prebilic Attorney, Agent, or Firm—Donald M. Sell; Walter N.	
[22]	Filed:	Jan. 24, 1989	Kirn; Gregory A. Evearitt	
[51]	[51] Int. Cl. <sup>5</sup>		[57] ABSTRACT	
			A dimensionally stable alginate hydrogel foam wound dressing that absorbs wound exudate without any appreciable swelling. The wound dressing is formed-in-place in the wound cavity or on the wound surface from a reactive composition that foams as it gels. The water-insoluble alginate hydrogel foam based wound dressing is made by mixing together the ingredients of a two component system; applying the resulting composite	
[56]				
U.S. PATENT DOCUMENTS		PATENT DOCUMENTS		
•	4,291,025 9/1 4,391,799 7/1 4,393,048 7/1 4,401,456 8/1	1954       Eberl et al.       424/445         1981       Pellico       424/180         1983       Mason, Jr. et al.       424/132         1983       Mason, Jr. et al.       424/132         1983       Connick, Jr.       71/88         1986       Chavkin       424/44         1987       Schoots       604/379	liquid mixture to a wound site; and allowing the composite mixture to react. One component contains an aqueous suspension of certain di-or trivalent metal salts and an effervescent compound. The second component contains an aqueous solution of a biocompatible, water-soluble acid. At least one compound, and preferably both, contain a water soluble alginate.	
	FOREIG	N PATENT DOCUMENTS	County Constitute of Transact Doubleton will be supplied to	

4,948,575

[11] Patent Number:

27 Claims, No Drawings

United States Patent [19]

92329 10/1983 European Pat. Off. ...... 61 K/6/10